

WAX

Notice of Allowability	Application No.	Applicant(s)	
	10/675,787	ESCOBAR ET AL.	
	Examiner	Art Unit	
	James L Habermehl	2651	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 30 Sep 03, 20 Jan 04, and 18 Mar 05.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ The drawings filed on 30 Sep 03 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

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1. This Office action is in response to papers filed 30 September 2003, 20 January 2004, and 18 March 2005, which papers have been placed of record in the file.
2. The terminal disclaimer filed on 18 March 2005 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent No. 6,865,506 has been reviewed and is accepted. The terminal disclaimer has been recorded.
3. Claims 1-20 are allowed over the prior art of record. The following is an examiner's statement of reasons for allowance:

Claims 1 and 8 are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose a hard disk drive having two modes of operation comprising means for changing a mode of operation of the hard disk drive from a first mode to a second mode, wherein the first mode of operation generates less heat than the second mode of operation, as described in Figures 6-7 and p. 10 and presented in the environment of claims 1 and 8. It is noted that the closest prior art, Enarson et al., shows setting a desired temperature range for when the hard disk drive is being tested similar to the claimed invention. However, Enarson et al. fails to disclose means for changing a mode of operation of the hard disk drive from a first mode to a second mode, wherein the first mode of operation generates less heat than the second mode of operation, as described in Figures 6-7 and p. 10 and as claimed.

Claim 15 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose a hard disk drive having two

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modes of operation comprising means for setting a mode of operation of the hard disk drive to a first mode, wherein the first mode of operation generates more heat than a second mode of operation, as described in Figures 6-7 and p. 10 and presented in the environment of claim 15. It is noted that the closest prior art, Enarson et al., shows setting a desired temperature range for when the hard disk drive is being tested similar to the claimed invention. However, Enarson et al. fails to disclose means for setting a mode of operation of the hard disk drive to a first mode, wherein the first mode of operation generates more heat than a second mode of operation, as described in Figures 6-7 and p. 10 and as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Escobar et al. substantially discloses applicant's invention. Ding et al. Figures 7-10 show temperature compensation of seek profiles in a hard disk drive. Katahara et al. Figures 3-4, Korbel et al. Figures 3-4, Soyama et al. Figure 5, Francis et al. Figures 2-3 and 6, Ottesen et al. Figures 2-3A, Beppu Figures 3-5B, Onda et al. Figures 4 and 9, Messenger et al. Figure 5, and Jeppson col. 16 show controlling disk drive temperature using different modes or controlling disk drive modes based on the temperature in the disk drive.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James L Habermehl whose telephone number is (703)305-6975. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on (703)308-4825. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Habermehl/jlh
14 Apr 05



DAVID HUDSPETH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER